

## WEST Search History

DATE: Wednesday, March 12, 2003

### Set Name Query

side by side

Hit Count Set Name  
result set

*DB=USPT; PLUR=YES; OP=OR*

L5	L4 same (driv\$ or spindle or speed or stop\$)	20	L5
L4	L2 same (transmi\$5 or reflect\$ or travel\$ or travers\$ or propagat\$ or receiv\$)	169	L4
L3	L2 same (transmi\$5 or reflect\$ or travel\$ or travers\$)	137	L3
L2	L1 same (light or beam or laser)	901	L2
L1	(disc or disk or medium) same (crack\$ or (crack near5 detect\$))	8273	L1

END OF SEARCH HISTORY

**WEST**

Generate Collection

L10: Entry 11 of 19

File: JPAB

Jan 29, 1999

PUB-NO: JP411023486A

DOCUMENT-IDENTIFIER: JP 11023486 A

TITLE: DEFECT INSPECTING DEVICE AND METHOD THEREFOR

PUBN-DATE: January 29, 1999

## INVENTOR-INFORMATION:

NAME

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## ASSIGNEE-INFORMATION:

NAME

SONY CORP

COUNTRY

APPL-NO: JP09174174

APPL-DATE: June 30, 1997

INT-CL (IPC): G01 N 21/88; G01 B 11/30; G11 B 5/84; G11 B 7/00; G11 B 7/26; G11 B 11/10

## ABSTRACT:

PROBLEM TO BE SOLVED: To reduce inspection cost and to shorten inspection time by irradiating an object to be inspected and detecting scattered light from a defect present in the object to be inspected.

SOLUTION: A magneto-optical disk 1, which is an inspected disk, is placed on a spindle 101, and fixed by vacuum chucking. Then the spindle 101 is driven to rotate the magneto-optical disk 1 at a rotational frequency in which optimal sensor detection sensitivity and inspection time are considered, and the magneto-optical disk 1 is irradiated with light LB from a light irradiation part 102. In the case the magneto-optical disk 1 is a defective article, for example, with a small crack, the irradiation light LB incident on the surface of the magneto-optical disk 1 at an angle of incidence of approximately 40° is irregularly reflected at the portion of the small crack, and the scattered light is not incident on the laser fiber sensor of the light irradiation part 102 but only on the color and gloss sensor of a light detecting part 103. In the case of this, as only the color and gloss sensor reacts, the presence of a small crack on the magneto-optical disk 1 is verified.

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